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NOTICE OF ALLOWANCE AND FEE(S) DUE

20583 7590 05/15/2009

JONES DAY
222 EAST 41ST ST
NEW YORK, NY 10017

EXAMINER	
ROBINSON, HOPE A	
ART UNIT	PAPER NUMBER
1652	

DATE MAILED: 05/15/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/506,406	03/14/2005	Rafal Swiercz	9471-011-999	8301

TITLE OF INVENTION: MODIFIED PLASMINOGEN ACTIVATOR INHIBITOR TYPE-1 AND METHODS BASED THEREON

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$300	$0	$1810	08/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

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nonprovisional	NO	$1510	$300	$0	$1810	08/17/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
ROBINSON, HOPE A	1652	530-350000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**

☐ A check is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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ROBINSON, HOPE A	
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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

Notice of Allowability	Application No.	Applicant(s)	
	10/506,406	SWIERCZ ET AL.	
	Examiner	Art Unit	
	HOPE A. ROBINSON	1652	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *4/27/09*.

2. ☒ The allowed claim(s) is/are *1,2,4-6,9-16,21-23,29-31 and 33*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Hope A. Robinson/ Primary Examiner, Art Unit 1652	

EXAMINER'S AMENDMENT

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 19, 2009 has been entered.

2. The Supplemental Amendment filed on April 27, 2009 has been received and entered.

3. An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

4. Authorization of this Examiner's amendment was given in a telephone interview with Ms. Susie Cheng on May 4, 2009.

5. The Claims have been amended as follows:

Please **cancel** claim 32 without prejudice.

1. (Currently Amended) A modified plasminogen activator inhibitor type-1 (PAI-1) molecule comprising [the] an amino acid sequence that is at least 95% identical to the amino acid sequence of SEQ ID NO:2, in which one or more amino acid residues are each substituted by an amino acid residue that contains a sulfhydryl group, such that one or more disulfide bridges are formed at a position selected from the group consisting of 31, 97, 192, 197, 347, and 355 of SEQ ID NO:2 , [and] wherein said modified PAI- 1 molecule has a half-life that is longer than the half-life of a corresponding wild-type PAI-1 molecule, and wherein said modified PAI-1 molecule inhibits urokinase plasminogen activator.

2. (Currently Amended) The modified PAI-1 molecule of claim 1, which has [an] a half-life of 3 hours, 6 hours, 10 hours, 20 hours, 50 hours, 60 hours, 70 hours, 90 hours, 100 hours, 150 hours, 200 hours, 10 days, 12 days, 16 days, 30 days, or 60 days.

4. (Currently Amended) The modified PAI-1 molecule of claim 1, wherein said residue that contains a sulfhydryl group is cysteine.

5. (Currently Amended) A modified plasminogen activator inhibitor type-1 (PAI-1) molecule comprising the amino acid sequence of SEQ ID NO:2, [wherein] except for substitution by an amino acid residue that contains a sulfhydryl group at one or more [amino acid residues of SEQ ID NO:2 is substituted by an amino acid residue

that contains a sulfhydryl group at] of positions 31, 97, 192, 197, 347, or 355 of SEQ ID NO:2, wherein said modified PAI-1 molecule has a half-life that is longer than the half-life of a corresponding wild-type PAI-1 molecule, and wherein said modified PAI-1 molecule inhibits urokinase plasminogen activator.

6. (Currently Amended) A modified plasminogen activator inhibitor type-1 (PAI- 1) molecule comprising the amino acid sequence of SEQ ID NO:2, [wherein] except for substitution by an amino acid residue that contains a sulfhydryl group at [one or more amino acid residues is substituted by an amino acid residue that contains a sulfhydryl group at] positions (i) 31 and 97 of SEQ ID NO:2; (ii) 192 and 347 of SEQ ID NO:2; (iii) 197 and 355 of SEQ ID NO:2; (iv) 31, 97, 192, and 347 of SEQ ID NO:2; (v) 31, 97, 197, and 355 of SEQ ID NO:2; (vi) 192, 197, 347, and 355 of SEQ ID NO:2; or (vii) 31, 97, 192, 197, 347, and 355 of SEQ ID NO:2, [and] wherein said modified PAI-1 molecule has a half-life that is longer than the half-life of a corresponding wild-type PAI-1 molecule, and wherein said modified PAI-1 molecule inhibits urokinase plasminogen activator.

9.(Currently Amended) The modified PAI-1 molecule of claim 1, wherein said molecule inhibits tissue plasminogen activator.

10. (Currently Amended) The modified PAI-1 molecule of claim 1, wherein said molecule augments endogenous PAI-1 function.

11. (Currently Amended) A method of producing a modified plasminogen activator inhibitor type-1 molecule said method comprising:

(a) introducing into a cell a nucleic acid molecule encoding a modified PAI-1 molecule comprising [the] an amino acid sequence that is at least 95% identical to the amino acid sequence of SEQ ID NO:2, in which one or more amino acid residues are each substituted by an amino acid residue that contains a sulfhydryl group, such that one or more disulfide bridges are formed at a position selected from the group consisting of 31, 97, 192, 197, 347, and 355 of SEQ ID NO:2 , [and] wherein said modified PAI-1 molecule has a half-life that is longer than the half-life of a corresponding wild-type PAI-1 molecule and wherein said modified PAI-1 molecule inhibits urokinase plasminogen activator; and

(b) culturing the cell under conditions suitable for expression of the modified PAI-1 molecule.

12. (Currently Amended) A method of producing a modified plasminogen activator inhibitor type- 1 (PAI- 1) molecule, said method comprising:
(a) introducing into a cell a nucleic acid molecule encoding a modified PAI-1 molecule said molecule comprising the amino acid sequence of SEQ ID NO:2, [wherein] except for substitution by an amino acid residue that contains a sulfhydryl group [one or more amino acid residues of SEQ ID NO:2 are each substituted by an amino acid residue that contains a sulthydryl group] at positions 31, 97, 192, 197, 347,

[and] or 355 of SEQ ID NO:2, wherein said modified PAI-1 molecule has a half life that is longer than the half-life of a corresponding wild-type PAI-1 molecule, and wherein said modified PAI-1 molecule inhibits urokinase plasminogen activator; and

(b) culturing the cell under conditions suitable for expression of the modified PAI-1 molecule.

13. (Currently Amended) A method of producing a modified plasminogen activator inhibitor type-1(PAI-1) molecule, said method comprising:

(a) introducing into a cell a nucleic acid molecule encoding a modified PAI-1 molecule, said molecule comprising the amino acid sequence of SEQ ID NO:2, [in which] except for substitution by an amino acid residue that contains a sulfhydryl group [one or more amino acid residues are each substituted by an amino acid residue that contains a sulfhydryl group] at positions (i) 31 and 97; (ii) 192 and 347; (iii) 197 and 355; (iv) 31, 97, 192, and 347; (v) 31, 97, 197, and 355; (vi) 192, 197, 347, and 355; or (vii) 31, 97, 192, 197, 347, and 355, [and] wherein said modified PAI-1 molecule has a half life that is longer than the half-life of a corresponding wild-type PAI-1 molecule, and wherein said modified PAI-1 molecule inhibits urokinase plasminogen activator; and

(b) culturing the cell under conditions suitable for expression of the modified PAI-1 molecule.

15. (Currently Amended) A method of treating cancer in a subject in need thereof [suffering therefrom], said method comprising administering to [a] the subject [in which such treatment is desired] an effective amount of the modified PAI-1 molecule of claim 1.

16.(Currently Amended) The method of claim 15, wherein said cancer is selected from the group consisting of breast cancer, colon cancer, ovarian cancer, lung cancer, prostate cancer, melanoma, leukemia, lung cancer, skin cancer, pancreatic cancer, bladder cancer, sarcoma, and uterine cancer.

21. (Currently Amended) A method of treating urokinase plasminogen activator-mediated fibrinolysis in a subject in need thereof, said method comprising administering to [a] the subject [in which such treatment is desired] an effective amount of the modified PAI-1 molecule of claim 1.

22. (Currently Amended) A method of treating tissue plasminogen activator-mediated fibrinolysis in a subject in need thereof, said method comprising administering to [a] the subject [in which such treatment is desired] an effective amount of the modified PAI-1 molecule of claim 1.

23. (Currently Amended) A pharmaceutical composition comprising a therapeutically effective amount of the modified PAI- 1 molecule of claim 1[;] and a pharmaceutically acceptable carrier.

29. (Currently Amended) A modified plasminogen activator inhibitor type-1(PAI-1) molecule comprising the amino acid sequence of SEQ ID NO:2 [wherein] except for substitution by an amino acid residue that contains a sulfhydryl group [amino acid residues] at positions: (i) 31 and 97 of SEQ ID NO:2; (ii) 192 and 347 of SEQ ID NO:2; (iii) 197 and 355 of SEQ ID NO:2; (iv) 31, 97, 192, and 347 of SEQ ID NO:2; (v) 31, 97, 197, and 355 of SEQ ID NO:2; (vi) 192, 197, 347 and 355 of SEQ ID NO:2; or (vii) 31, 97, 192, 197, 347, and 355 of SEQ ID NO:2, [are substituted with amino acid residues that contain a sulfhydryl group], wherein said modified PAI-1 molecule inhibits urokinase plasminogen activator.

30. (Currently Amended) A method of producing a modified plasminogen activator inhibitor type-1 (PAI-1) molecule said method comprising:

(a) introducing into a cell a nucleic acid molecule encoding the modified PAI-1 molecule of claim 1; and

(b) culturing the cell under conditions suitable for expression of the modified PAI-1 molecule.

33. (Currently Amended) The [modififed] modified PAI-1 molecule of any one of claims 1, 5, [and] or 6, wherein the half-life is an *in vivo* half-life.

EXAMINER'S COMMENTS

4. The restriction requirement of record has been withdrawn in part, rejoining method claims.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

6. Claims 1-2, 4-6, 9-16, 21-23, 29-31 and 33 are allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hope A. Robinson whose telephone number is 571-272-0957. The examiner can normally be reached on Monday-Friday.
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nashaat Nashed, can be reached at (571) 272-0934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Hope A. Robinson/

Primary Examiner, Art Unit 1652